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Annotation to the work program of the discipline

name of disciplines	Электротехника / Electrical Engineering
Summary	Linear electrical circuits of direct current; linear electrical circuits of alternating current; non-linear electrical circuits; magnetic circuits, electromagnetic devices; electrical measurements and instruments; transformers; electric cars; electric drive of machines and mechanisms; power supply to consumers; fundamentals of electronics; electronic devices; electronic devices; impulse and digital technology.
The results of mastering the discipline (module)	determines the need for fishing material necessary for the preparation of working projects; determines the fundamental differences in approaches to the design of technical objects, systems and technological processes;
Labor intensity, cu Reporting forms (including by semesters)	4 Exam
Main literature	List of basic and additional literature required to master the discipline 1. Kasatkin A.S. Electrical engineering: Textbook for universities / A. S. Kasatkin, M. V. Nemtsov. - 12th ed. - M.: Academy, 2008. - 544 p. - ISBN9785769557729. 2. Nemtsov M.V. Electrical engineering and electronics (6th ed., erased) textbook. - M: Academy, 2013. - 480 p. - ISBN: 9785446804320. 3. Electrical engineering and electronics: Textbook for universities / V.V. Kononenko [and others]; ed. V.V. Kononenko. - Ed. 6th - Rostov n / a: Phoenix, 2010. - 784 p. (Higher Education Series. - ISBN978-5-222-17568-2
additional literature	4.Pryanishnikov V.A. Electronics: Full course of lectures / V.A. Pryanishnikov. - Change. 6th - St. Petersburg: KORONA-Vek, 2014. - 416 p. - ISBN978-5-7931-0522-4. 5.Lachin, V. I. Electronics: textbook / V. I. Lachin, N. S. Savelov. - Ed. 8th. - Rostov n/a. : Phoenix, 2010. - 703, [1] p. - (Higher education). - ISBN978-5-222-17655-9 Grigorash, O. V. Electrical engineering and electronics: a textbook for universities / O. V. Grigorash, G. A. Sultanov, D. A. Normov. - Rostov-on-Don : Phoenix ; Krasnodar: Neoglori, 2008. - 462 p. - (Higher education). - ISBN978-5-222-13949-3. Sindeev, Yu. G. Electrical engineering with the basics of electronics: educational allowance / Yu. G. Sindeev. - Ed. 5th. - Rostov n / a: Phoenix, 2004. - 384 p. - ISBN5-222-05630-9

	Opadchy, Yu. F. Analog and digital electronics: a full course: textbook / Yu. F. Opadchiy, O. P. Gludkiy, A. I. Gurov; ed. O. P. Gludkina. - M.: Hot Line - Telecom, 2005. - 768 p. - Bibliography: p. 763. - ISBN5-93517-002-7 Bessonov L.A. Theoretical foundations of electrical engineering. Electrical circuits. Advanced course. Textbook for bachelors. Ed.12, corrected, supplemented. 2014. 701 p. - ISBN978-5-9916-3210-2 10. Bessonov L.A. Theoretical foundations of electrical engineering. Electromagnetic field. 2014. 317 p. - ISBN978-5-9916-3176-1 Woldek, A. I. Electric machines: AC machines: textbook / A. I. Woldek, V. V. Popov. - St. Petersburg. [and others]: Peter, 2008. - 349 p. : ill., tab. - (Textbook for universities). - Bibliography: p. 341-343. - Alf. decree: p. 344-349. - ISBN978-5-469-01381-5 Voldek, A. I. Electrical machines: Introduction to electromechanics. DC machines and transformers: textbook / A. I. Voldek, b.V. Popov. - St. Petersburg. [and others]: Peter, 2008. - 320 p. : ill., tab. - (Textbook for universities). - Bibliography: p. 315-316. - Alf. - ISBN5-469-01380-4 Panfilov, D. I. Electrical engineering and electronics in experiments and exercises: workshop on Electronicsworkbench: In 2 volumes: textbook for students. electrical engineering and electricity. specialist. universities / D. I. Panfilov, V. C.Ivanov, I. N. Chepurin; under general ed. D. I. Panfilova, Volume 1, Electrical engineering. - M.: DODEKA, 2001. - 30 Gorbachev, G. N. Industrial electronics: a textbook for universities / G. N. Gorbachev, E. E. Chaplygin; ed. V. A. Labuntsova. - M.: Energoizdat, 1988. - 320 p. Zabrodin, Yu. S. Industrial electronics: a textbook for universities / Yu. S. Zabrodin. - M.: Higher. school, 1982. - 496 p. Grigorash, O. V. Electrical engineering and electronics: a textbook for universities / O. V. Grigorash, G. A. Sultanov, D. A. Normov. - Rostov-on-Don : Phoenix ; Krasnodar: Neoglori, 2008. - 462 p. - (Higher education). - ISBN978-5-222-13949-3. Electrical engineering: a textbook in three books. Book I. Theory of electric and magnetic circuits. Electrical measurements / ed. P. A. Butyrina, R. F. Gafiyatullina, A. L. Shestakov. - Chelyabinsk; Moscow: YuUrGU, 2003. - 505 p. Electrical engineering: a textbook in three books. Book II. Electric cars. Industrial electronics. Theory of automatic control / ed. P. A. Butyrina, R. Kh. Gafiyatullina, A. L. Shestakov. - Chelyabinsk; Moscow: SUGU, 2004. - 711 p. - Sindeev, Yu. G. Electrical engineering with the basics of electronics: a tutorial / Yu. G. Sindeev. - Ed. 5th. - Rostov n / a: Phoenix, 2004. - 384 p. - ISBN5-222-05630-9
	- Opadchy, Yu. F. Analog and digital electronics: full course: textbook / Yu. F. Opadchiy, O. P. Gludkiy, A. I. Gurov; ed. O. P. Gludkina. - M. : Hot Line - Telecom, 2005. - 768 p. - Bibliography: p. 763. - ISBN5-93517-002-7